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APPLICATION NO.	FILING DATE	- 1	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/281,852	03/31/1999	ţ	DARYL CARVIS CROMER	RP9-99-048	7708
7590 02/27/2004 .				EXAMINER	
BRACEWELL & PATTERSON, L.L.P. INTELLECTUAL PROPERTY LAW				TRUONG, THANHNGA B	
P.O. BOX 969	ill incident i bit	•		ART UNIT	PAPER NUMBER
AUSTIN,, TX	78767-0969	_	<del>-</del> ,	2135	

DATE MAILED: 02/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/281,852	CROMER ET AL.	- 1
Office Action Summary	Examiner	Art Unit	
	Thanhnga Truong	2135	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence address -	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, and the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by six Any reply received by the Office later than three months after the meaned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a n. a reply within the statutory minimum of the riod will apply and will expire SIX (6) MC tatute, cause the application to become b	reply be timely filed  irty (30) days will be considered timely.  NTHS from the mailing date of this communicated the communi	ation.
Status /			
1)⊠ Responsive to communication(s) filed on 3	31 March 1999.		
·= · · _=	This action is non-final.		
3) Since this application is in condition for allocation accordance with the practice und	· ·	·	s is
Disposition of Claims			
4) ☐ Claim(s) 1-7 and 10-16 is/are pending in the 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-7 and 10-16 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction are	drawn from consideration.		
Application Papers			
9) The specification is objected to by the Exan	niner.		
10)☐ The drawing(s) filed on is/are: a)☐			
Applicant may not request that any objection to	• • • • • • • • • • • • • • • • • • • •	• •	
Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	· ·	• • •	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	nents have been received.  The sents have been received in a periority documents have been reau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 	

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### **DETAILED ACTION**

The Appeal Brief filed November 24, 2003 has been carefully considered 1. by an Appeal Conference. The conferees agreed that Nielson fails to teach the claimed cookie is encrypted by a public key previously stored in a protected storage device. Thus the finality of the office action mailed August 13, 2003 is now withdrawn. The office regrets any inconvenience due to the applicant. The examiner in charge has left the office. The present application has been reassigned to the present examiner, who has thoroughly reviewed and searched the present invention.

## Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for 2. all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-7 and 10-16 are rejected under 35 U.S.C. 102(e) as being 3. unpatentable over Win et al (US 6, 161, 139), and further in view of Shrader et al (US 6, 374, 359 B1).

#### Referring to claim 1: a.

- Win teaches:
- in response to the receipt of a cookie generated by an (1) application from a remote server, encrypting said cookie with said public key [i.e., if the name and password are correct, the Authentication Client Module reads the user's roles from the Registry Server 108. It then encrypts and sends this information in a "cookie" to the user's browser. A "cookie" is a packet of data sent by web servers to web browsers (column 6, lines 51-56). In addition, As shown by state 524, cookie 528 and cookie 530 are encrypted and returned to the

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browser 100. Alternatively, state 524 may involve digitally signing cookie 528 and cookie 530 using a digital signature algorithm. Preferably, the cookies are encrypted rather than digitally signed because encryption is faster and produces a smaller cookie (column 11, lines 1-8)];

- storage device within said data processing system [i.e., referring to Figure 5C, cookie 528 and cookie 530 are saved in memory by the browser 100 indefinitely, unless either of the cookies expires, i.e., the system clock becomes equal to or greater than the expiration date value. The cookies 528, 530 are passed to each Web server that the user accesses and that is within the same domain as the Access Server 106. When a user quits the browser 100, cookies that have not expired are saved on a mass storage device associated with the browser 100, such as a disk drive located at the user's client machine or terminal (column 11, lines 11-18)];
- (3) in response to an access request for said encrypted cookie by a browser program executing within said data processing system, decrypting said encrypted cookie with said private key [i.e., when the user selects a resource, the browser sends an open URL request and cookie to a Protected Web Server. A Protected Web Server is a web server with resources protected by the Runtime Module. The Runtime Module decrypts information in the cookie and uses it to verify that the user is authorized to access the resource (column 6, lines 65-67 through column 7, lines 1-3)]; and
- (4) sending said decrypted cookie to said browser program [i.e., the cookie is also used by the resource to return information that is customized based on the user's name and roles (column 7, lines 3-5)].
  - ii. Although Win does not explicitly explain:
- (1) storing a encryption key pair having a private key and a public key in a protected storage device within said data processing system [i.e., all transactions between components in the system are made using HTTP over SSL (Secure Sockets Layer) sessions. For example, browser 100 initiates an SSL session with a handshake during which it negotiates a hash function and session

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encryption key, that is "having a private key and a public key" with HTTP Server 402 of Access Server 106, that is "a protected storage device" for "storing a encryption key pair having a private key and a public key". Once the session is established, all data exchanged between browser 100 and HTTP server 402 is encrypted (column 22, lines 66-67 through column 23, lines 1-5)];

- iii. Shrader, on the other hand, teaches:
- cryptosystem (PKC that is to employ an encryption key pair, such as a decryption private key and an encryption public key to decrypt and encrypt data), with the corresponding key being used for decryption in a known manner. A representative software PKC product is known in the art as PGP (Pretty Good Privacy), which is available for download over the Internet. Other encryption techniques, such as a private key cryptosystem using a session key, or the like, may be used as well. Preferably, the key pair is constructed and stored locally (for root user access only) during configuration of the Web server (column 7, lines 23-32).
- iv. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to:
- (1) clearly disclose the storing of an encryption key pair for authenticating users of the access system 2 as in Figure 1 of Win.
  - v. The ordinary skilled person would have been motivated to:
- (1) clearly disclose the storing of an encryption key pair for controlling access to protected information resources in a network environment, more specifically to methods, apparatus, and products for facilitating secure and selective access to network resources based on a role of a user of the resources (column 1, lines 5-10 of Win).

### b. Referring to claim 2:

- i. Win further teaches:
- (1) wherein said non-protected storage device is a hard drive [i.e., referring to Figure 9, a storage device 910, such as a magnetic disk, that is "a non-protected storage device", or optical disk (column 26, lines 17-18).

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In fact, a mass storage device associated with the browser 100, such as a disk drive, that is also "a non-protected storage device", located at the user's client machine or terminal (column 11, lines 16-18)].

### b. Referring to claim 3:

- i. Win further teaches:
- having an encryption engine and said protected storage device accessible only through said encryption engine [i.e., all transactions between components in the system are made using HTTP over SSL (Secure Sockets Layer) sessions. For example, browser 100 initiates an SSL session with a handshake during which it negotiates a hash function and session encryption key with HTTP Server 402 of Access Server 106. Once the session is established, all data exchanged between browser 100 and HTTP server 402 is encrypted. The SSL hash function is used to ensure data integrity, that is, to ensure that transactions are not tampered with or altered in any way. SSL encryption (that is "an encryption device having an encryption engine") is used to ensure that each transaction is private and confidential. This means that no one can wiretap or eavesdrop and read the contents of transactions. Thus no one can intercept names, passwords and cookies (column 22, lines 66-67 through column 23, lines 1-12)].
  - c. Referring to claims 4, 5, 6, 7, 13, 14, 15, and 16:
- i. These claims have limitations that is similar to those of claim3, thus they are rejected with the same rationale applied against claim 3 above.
  - d. Referring to claim 10:
- i. This claim has limitations that is similar to those of claim 1, thus it is rejected with the same rationale applied against claim 1 above.
  - e. Referring to claim 12:
- i. This claim has limitations that is similar to those of claim 3, thus it is rejected with the same rationale applied against claim 3 above.

### Conclusion

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4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a. Olden (US 6, 460, 141) discloses a security and access management system provides unified access management to address the specific problems facing the deployment of security for the Web and non-Web environment (see abstract).

b. Van Oorschot (US 6, 317, 829 B1) discloses a public key cryptography based security system and method stores decryption private key history data in a common directory accessible by roaming users, to facilitate roaming use of the encryption system

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhnga (Tanya) Truong whose telephone number is 703-305-0327.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 703-305-4393. The fax and phone numbers for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

TBT

February 18, 2004

FINANCIA TEST EXAMINITA

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